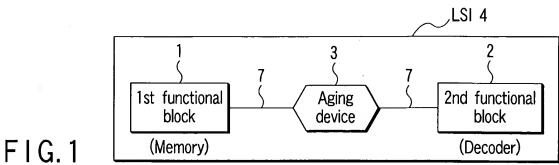
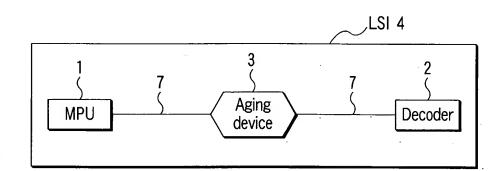
THE. THAT LIMIT I ONCITON UTILIZATION APPARATUS Inventors: Hiroshi WATANABE et

al.

DOCKET NO.: 016907-1569





F I G. 2

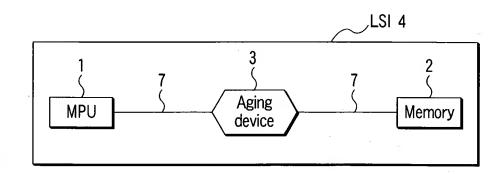


FIG. 3

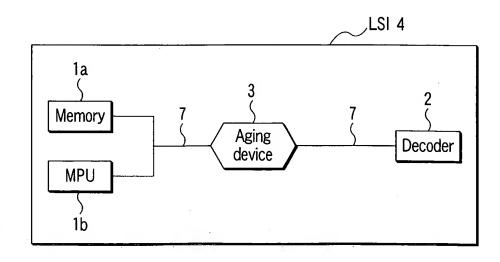


FIG.4

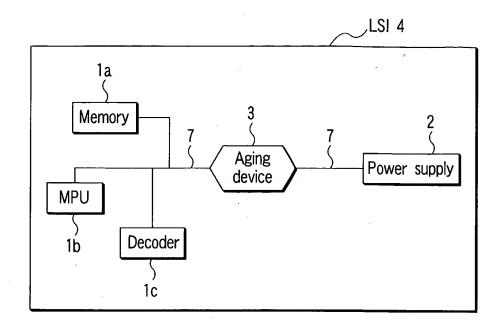


FIG. 5

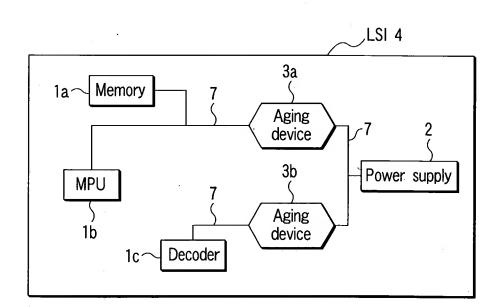


FIG.6

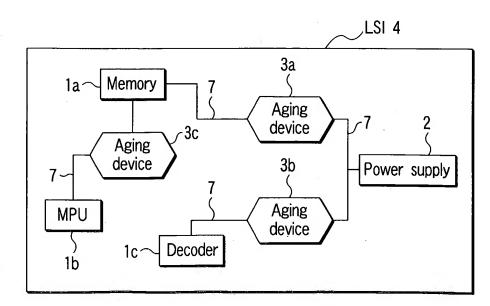
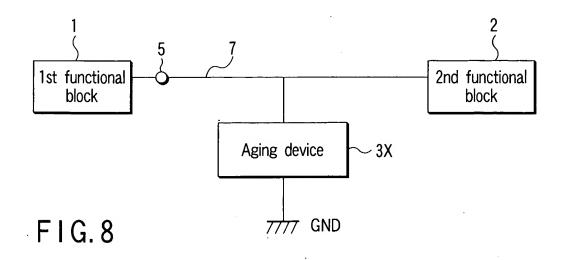
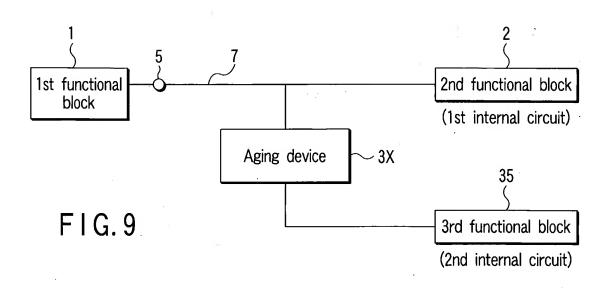
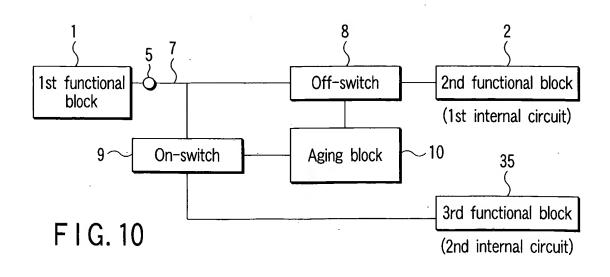
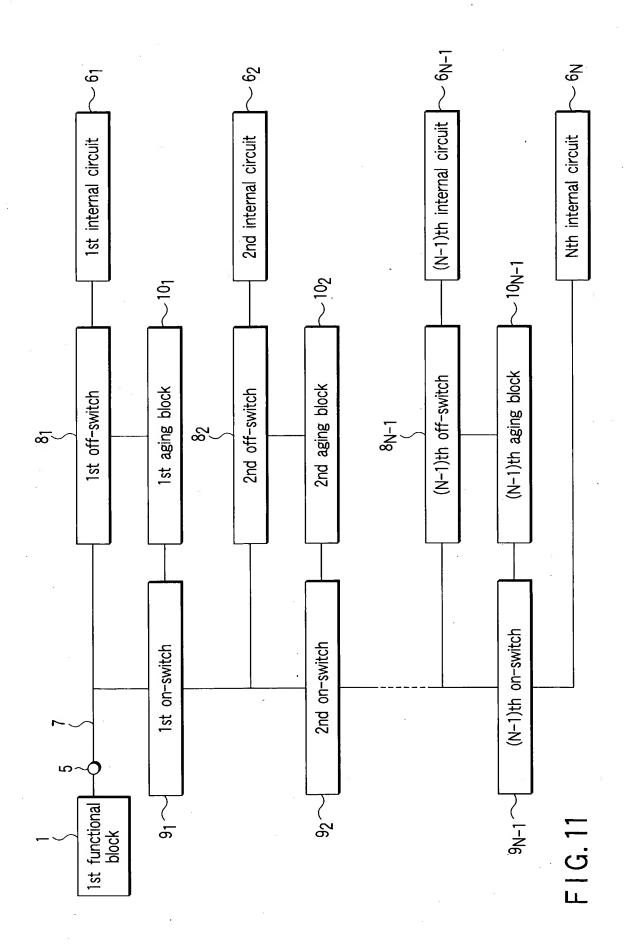


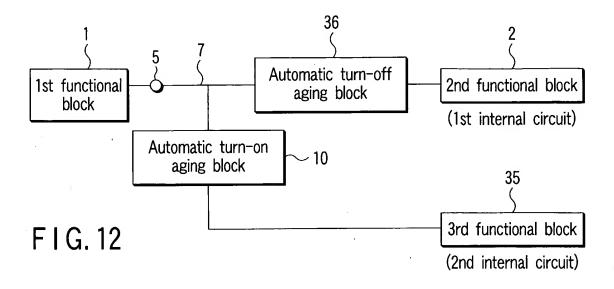
FIG.7

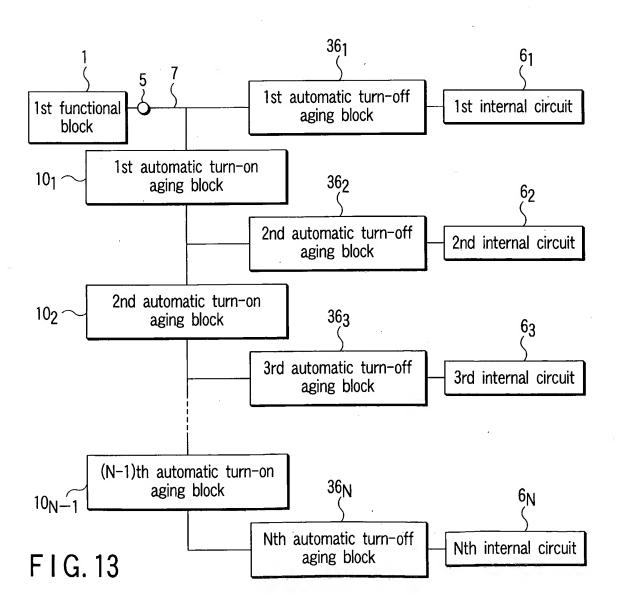


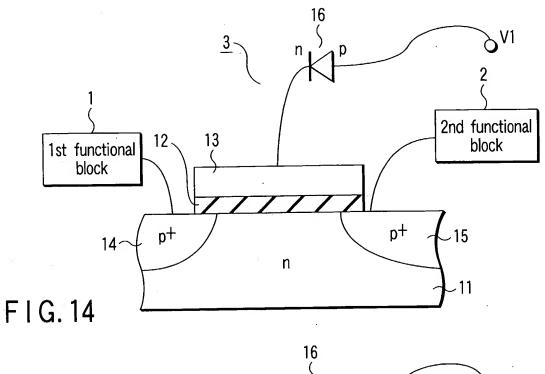


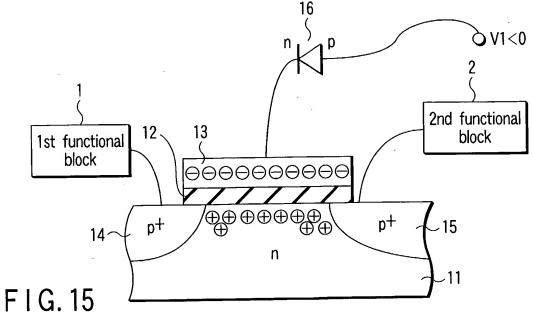












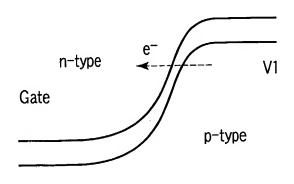
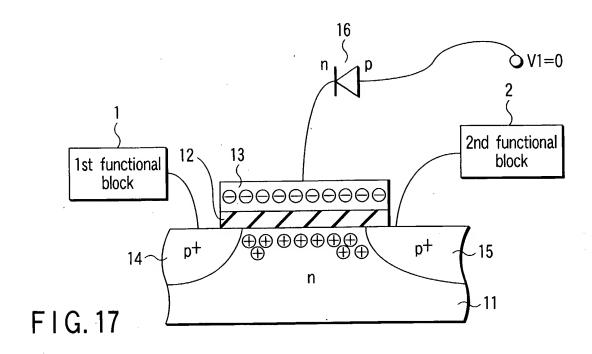
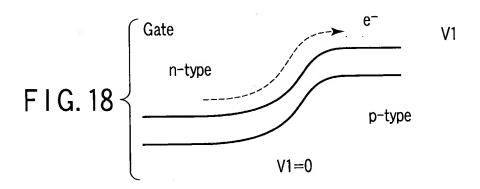
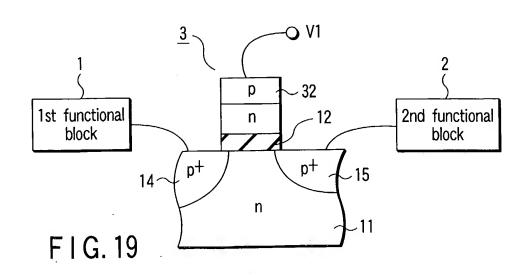
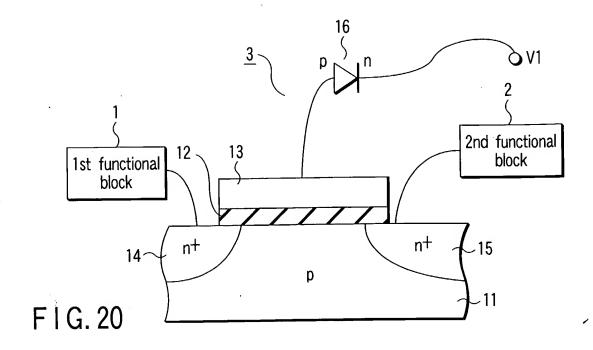


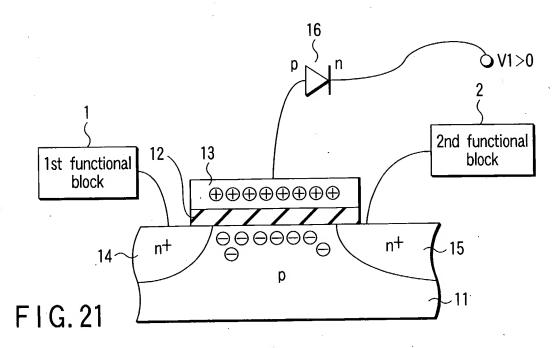
FIG. 16

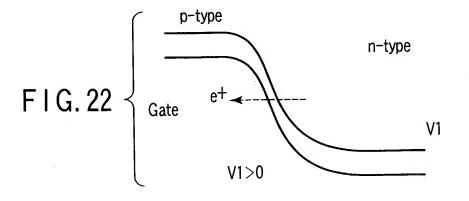




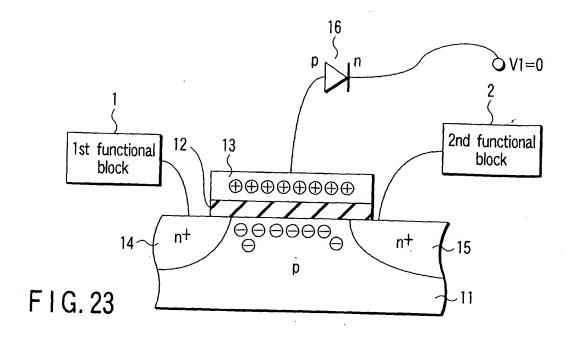


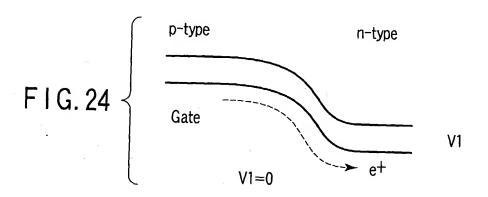


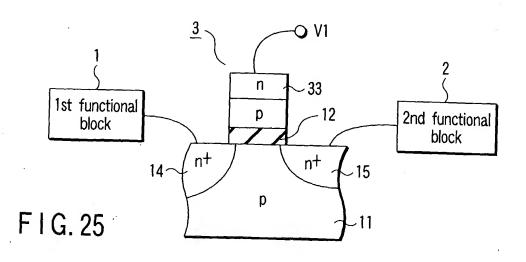




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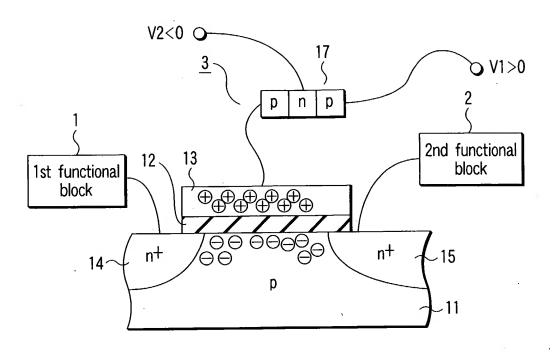


FIG. 26

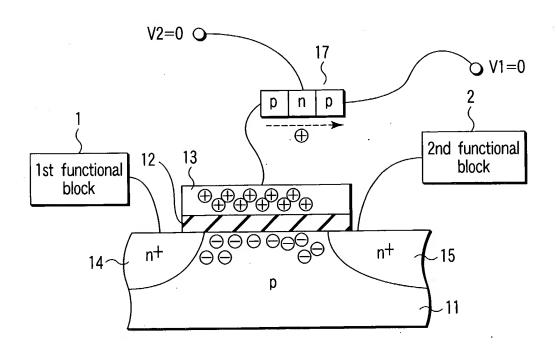
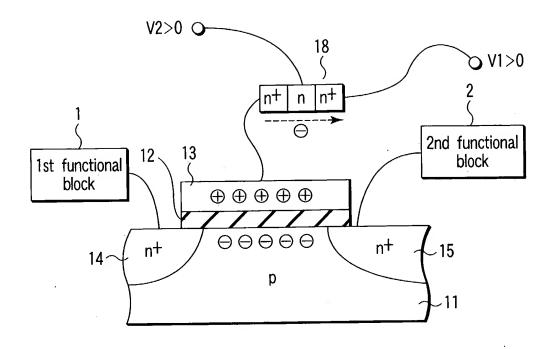


FIG. 27



F I G. 28

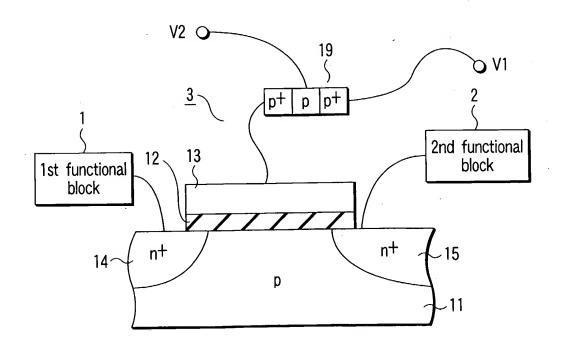


FIG. 29

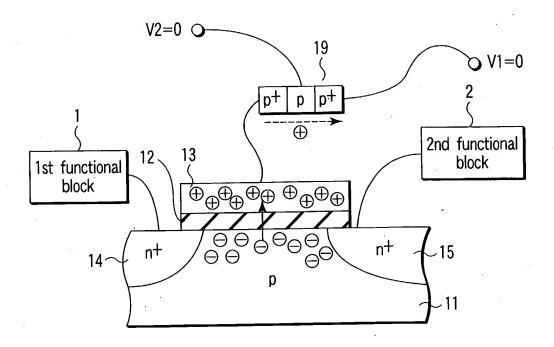


FIG. 30

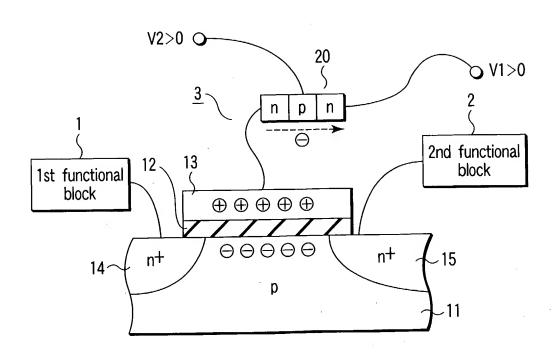


FIG. 31

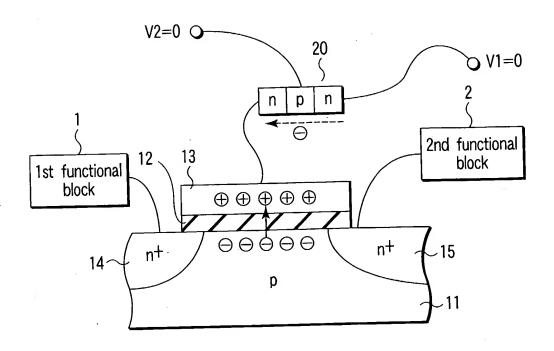


FIG. 32

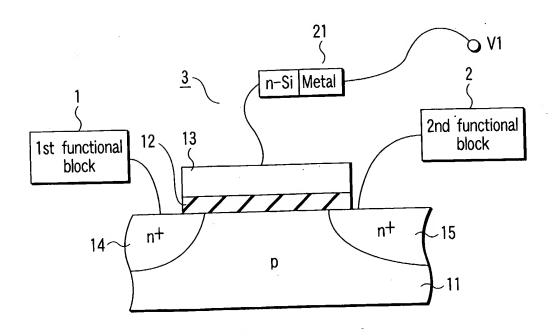
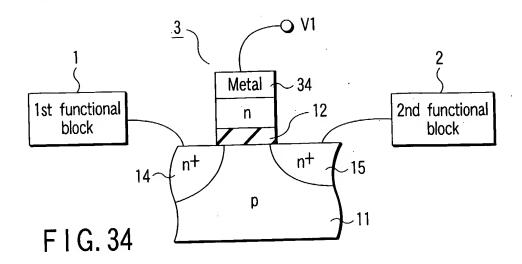
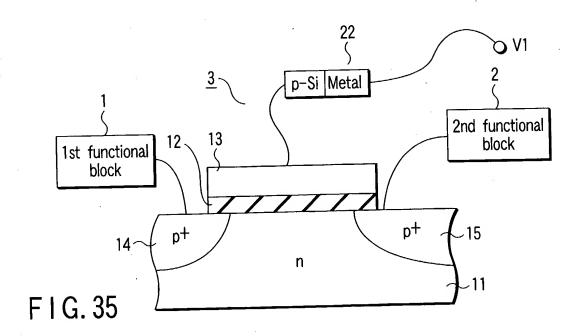
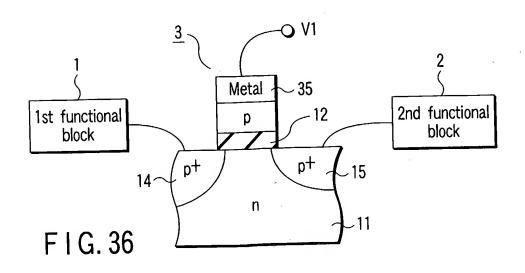


FIG. 33







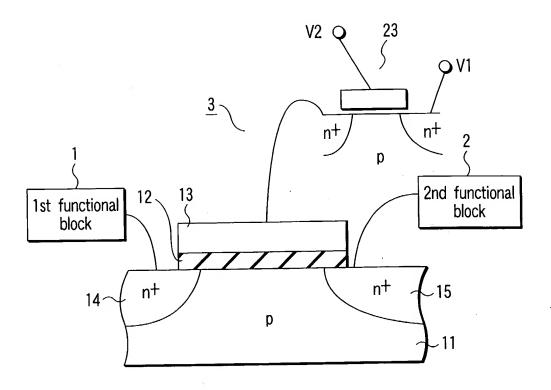


FIG. 37

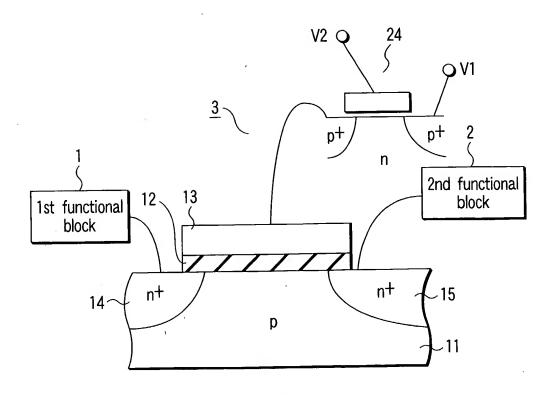


FIG. 38

al.

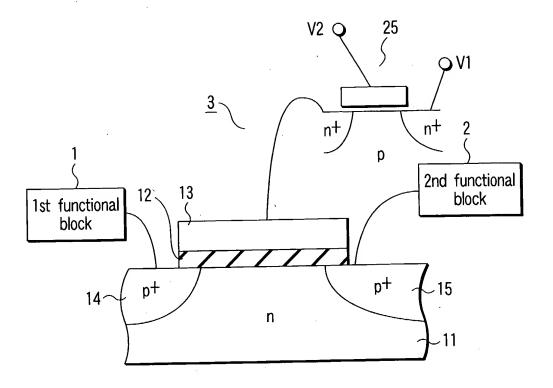


FIG. 39

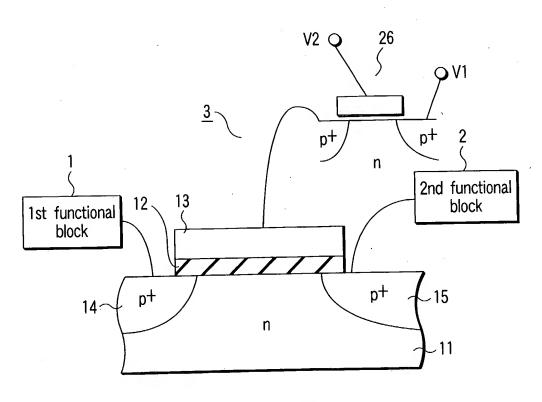
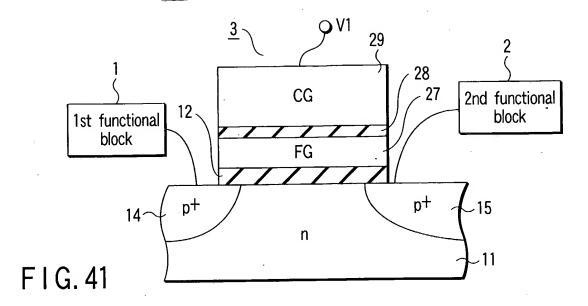
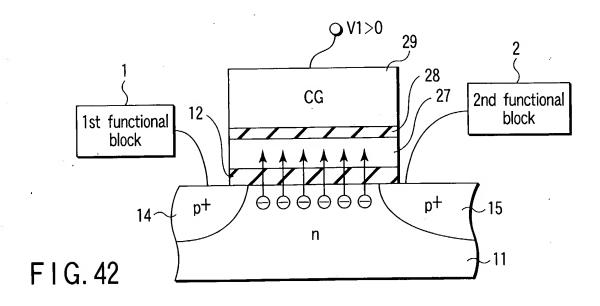
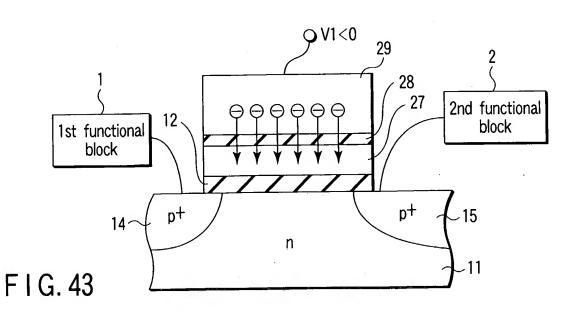


FIG. 40







UTILIZATION APPARATUS Inventors: Hiroshi WATANABE et DOCKET NO.: 016907-1569 QV1=029 28 - 27 CG 2nd functional block 12 1st functional  $\Theta \Theta \Theta$  $\Theta \Theta$ p<sup>+</sup> p+ **~15** n **-11 ○** V1=0 29 28 CG - 27 2nd functional 12. 1st functional block 999 999 p+ p+ \_15 n **~11** 29 29 -VG 🌣 - CG CG Area A∝1/Life <sub>1</sub>2 28 2nd functional block 27 15 p+ 15 p+ p+ ∝Life /11 14 1st functional block FG FIG. 46B FIG. 46A

block

FIG. 44

14-

block

FIG. 45

FG

p+

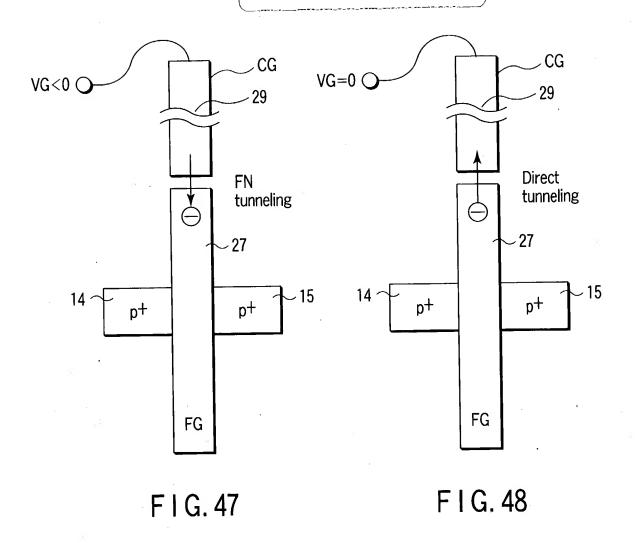
14

27

12-

n

14



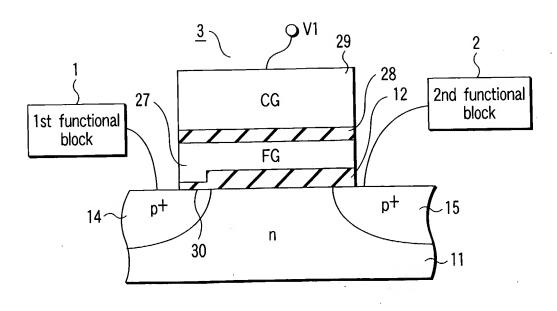
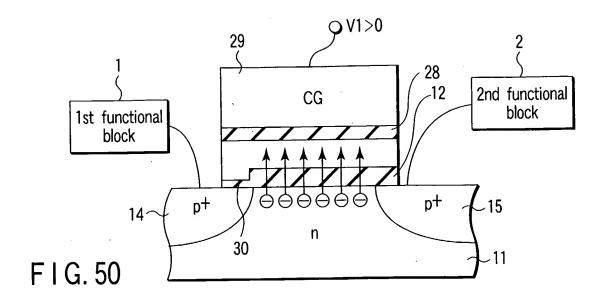
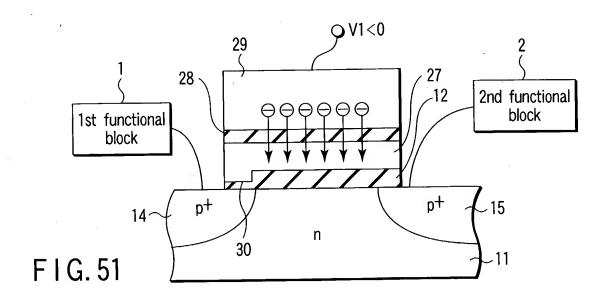
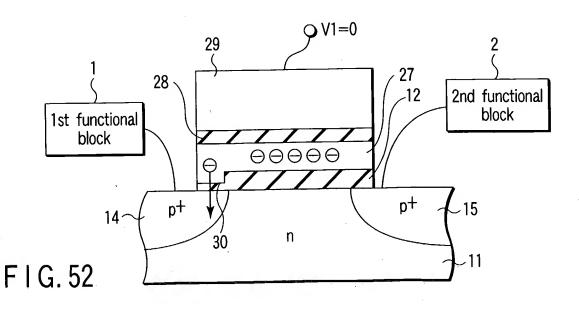
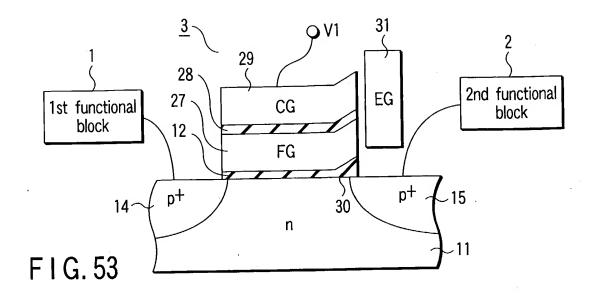


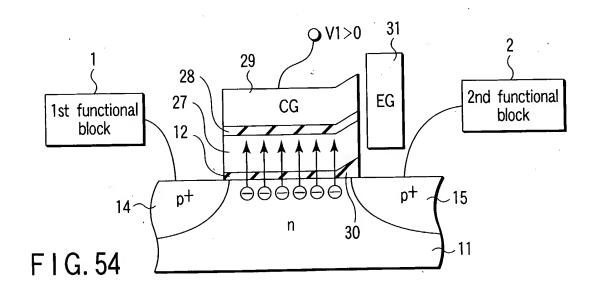
FIG. 49

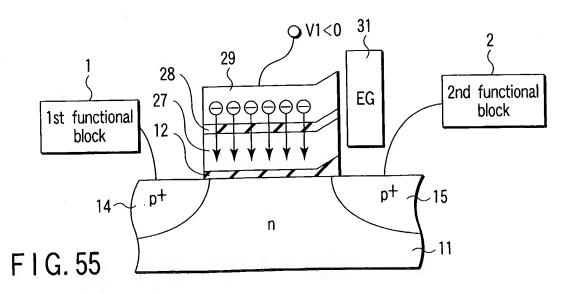


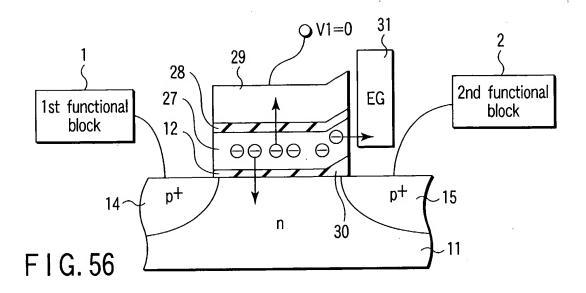


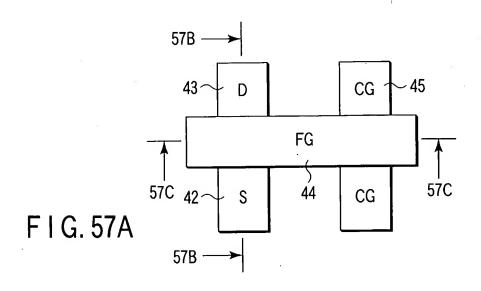












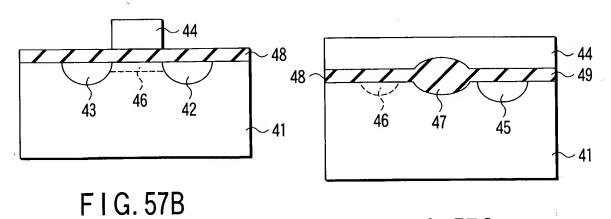
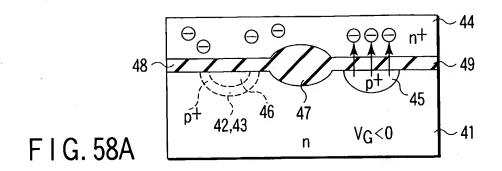
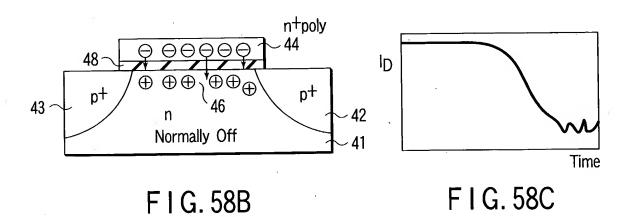
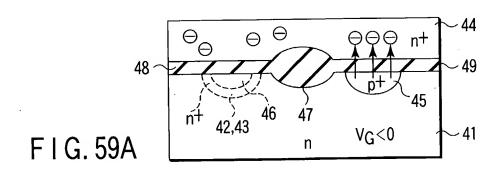
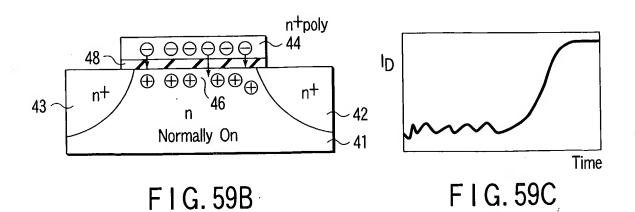


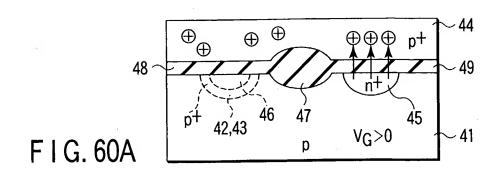
FIG. 57C

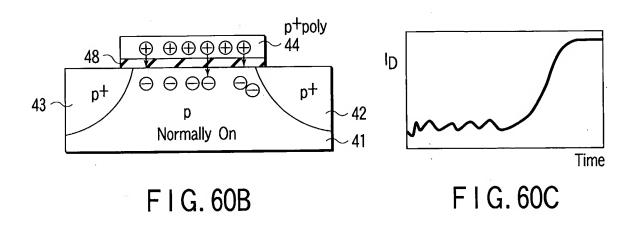


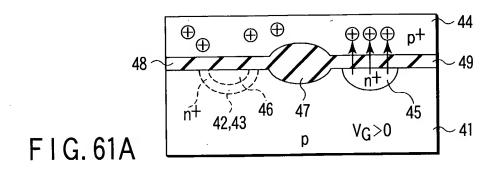


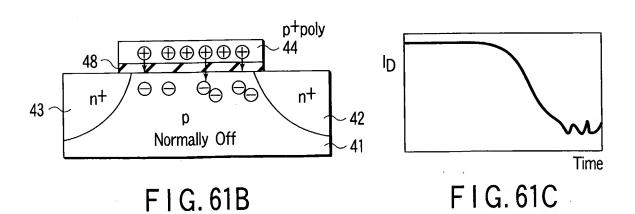












Inventors: Hiroshi WATANABE et DOCKET NO.: 016907-1569 45 43 D CG FG 44 62B 42 62B CG FIG. 62A FG 44 49 48 -46 42,43 47 F I G. 62B 45 CG 50 FG FG 44<sub>1</sub> 63B 442 63B 46 CG 42 FIG. 63A 50 442 441 FG FG\_ 49 48 ~ 45 F I G. 63B

UTILIZATION APPARATUS

UTILIZATION APPARATUS Inventors: Hiroshi WATANABE et DOCKET NO.: 016907-1569 **- 45** 43~ CG 50 FG FG 64B 64B S CGFIG. 64A 42 50 442 FG FG 48 -49 42,43 F I G. 64B 50 CG FG CG FG 45 65B FIG. 65A 441 442 50 441 48~ ) 45 43 41 FIG. 65B

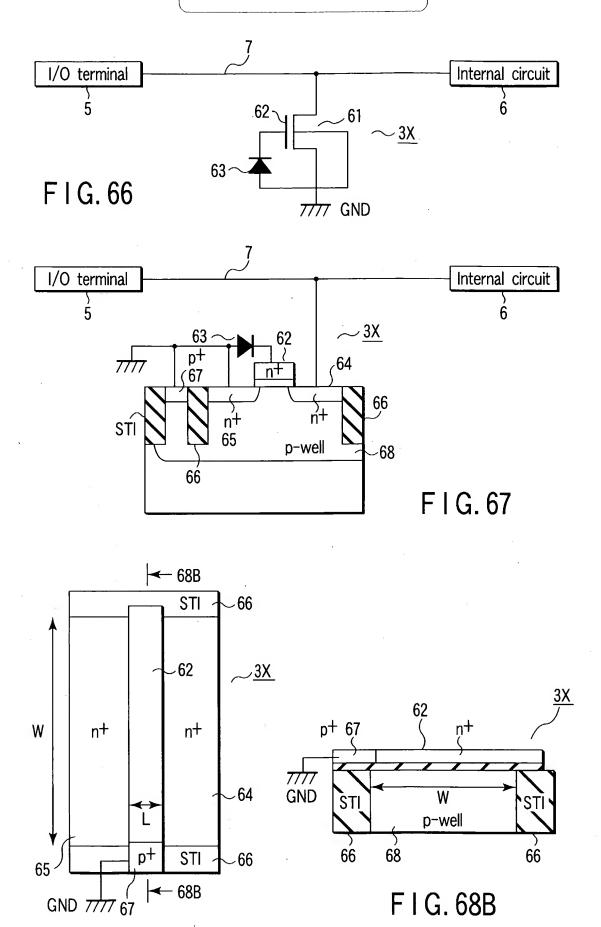


FIG. 68A

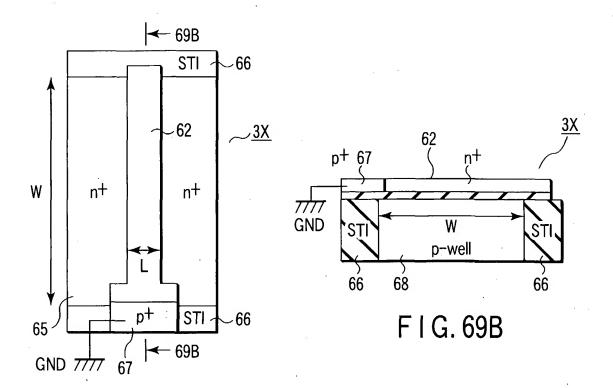


FIG. 69A

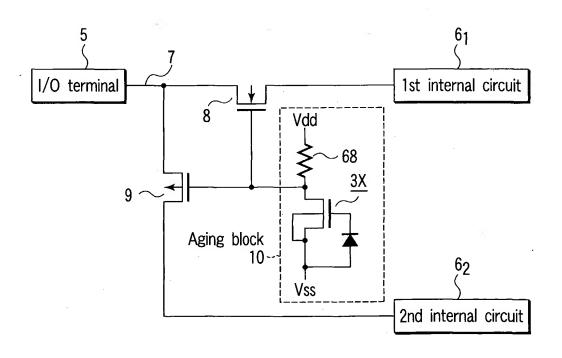
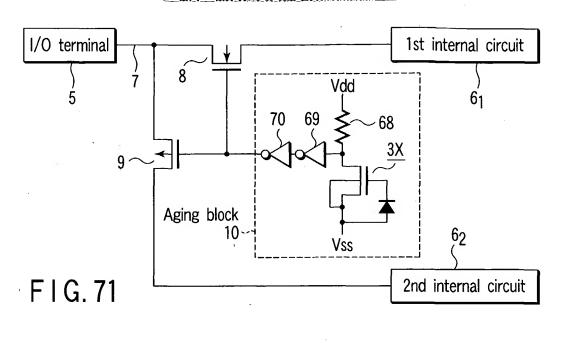
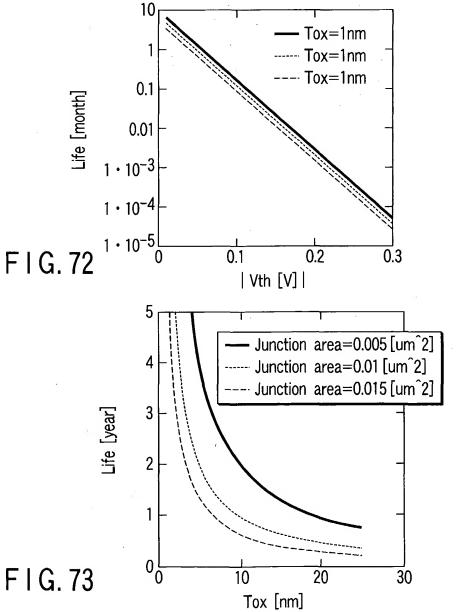
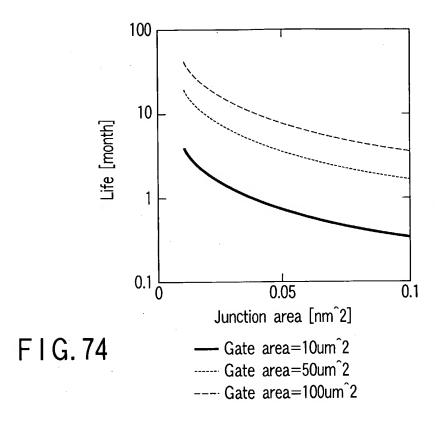


FIG. 70







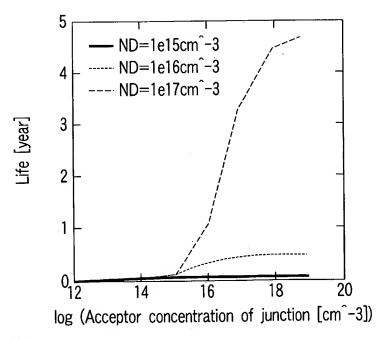
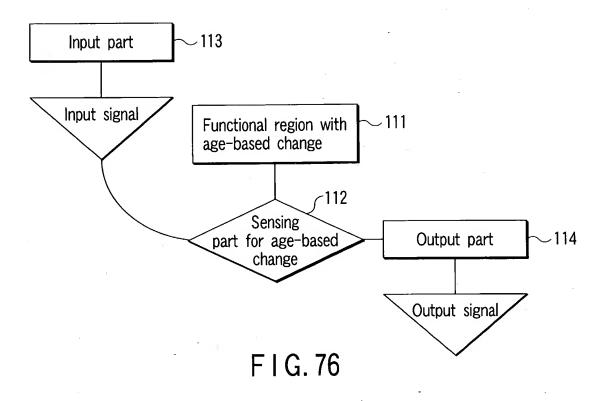


FIG. 75



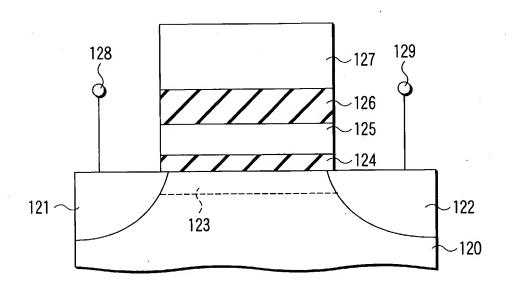
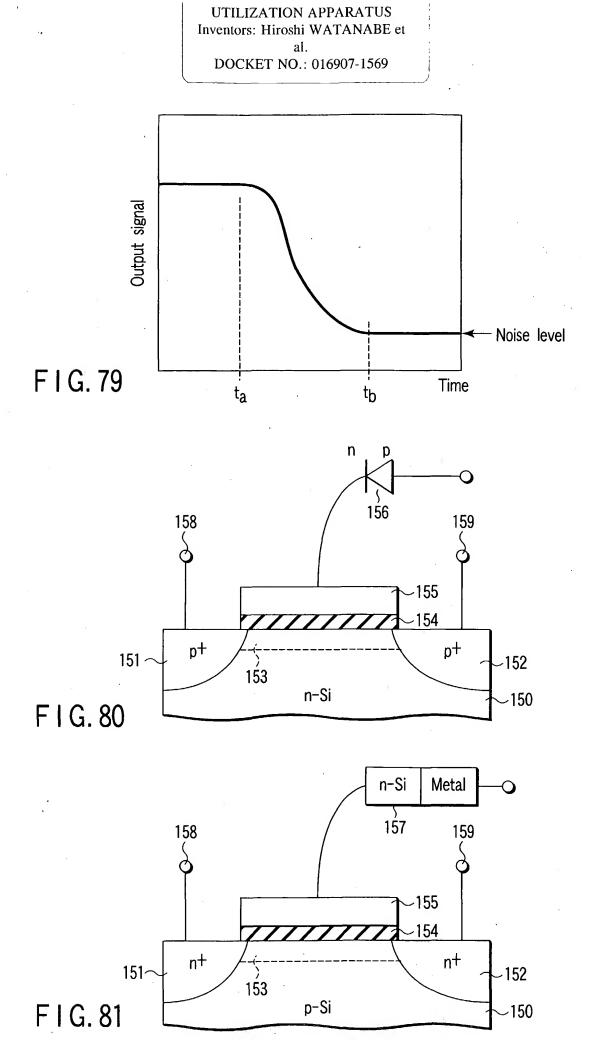
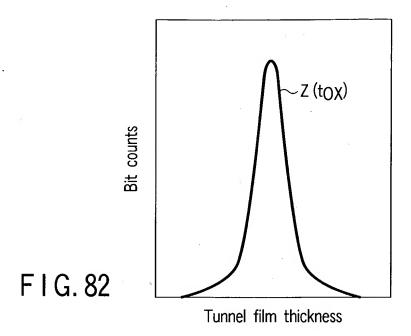


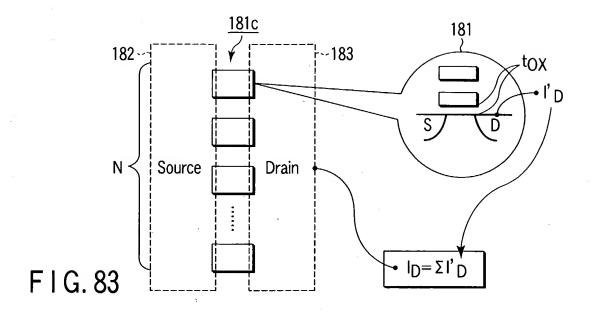
FIG. 77

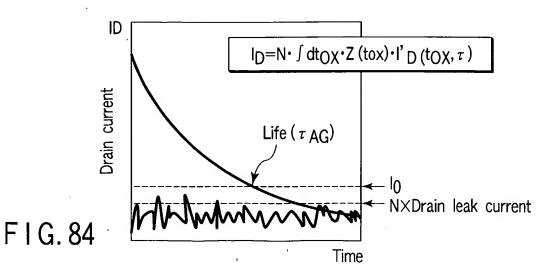
al. DOCKET NO.: 016907-1569 9~129 Time 90 128 Output signal Output signal F1G.78F F1G. 78C Time Time 4 128 128 Output signal Output signal F1G. 78E FIG. 78B 2-125 9~129 Time Time 0000000 90 128 Output signal Output signal F1G. 78D F1G. 78A

UTILIZATION APPARATUS Inventors: Hiroshi WATANABE et

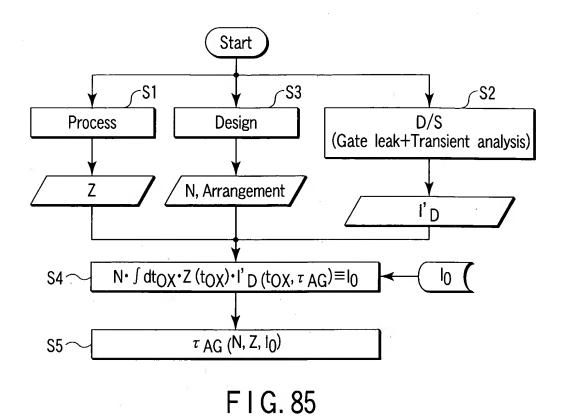






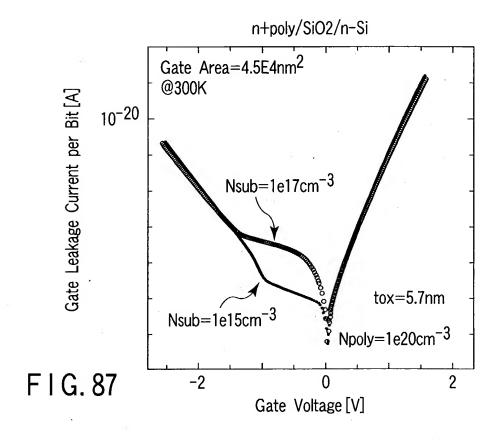


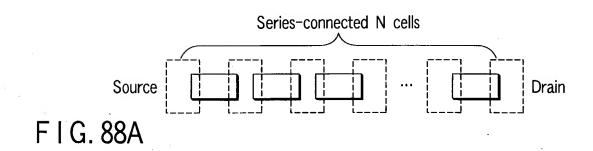
al.

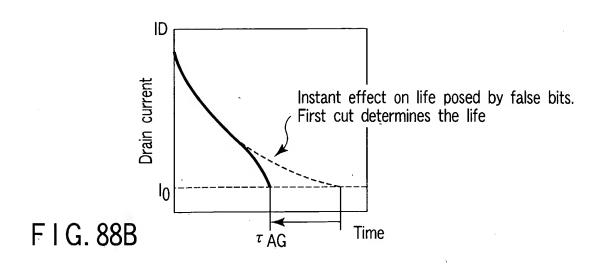


211 | D | Decoder | 212

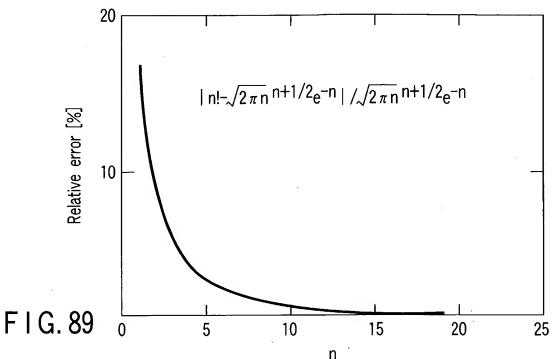
FIG. 86







UTILIZATION APPARATUS
Inventors: Hiroshi WATANABE et
al.
DOCKET NO.: 016907-1569



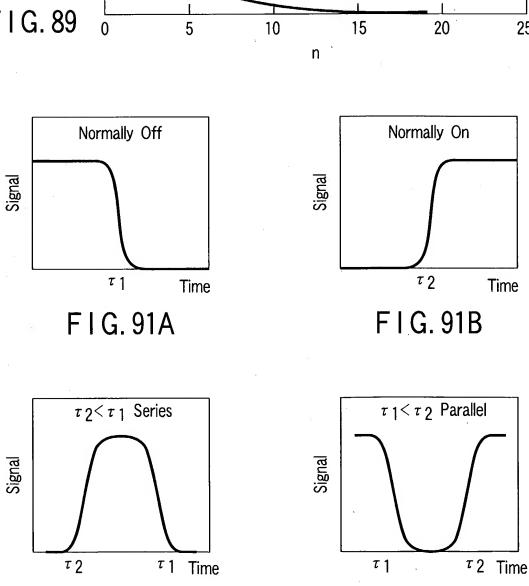


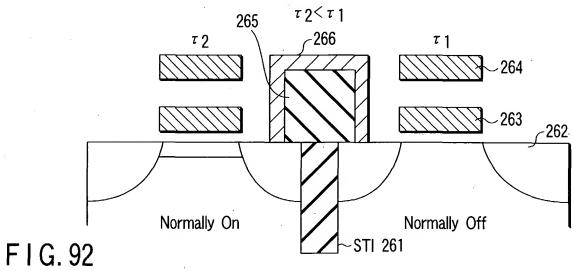
FIG. 91C FIG. 91D

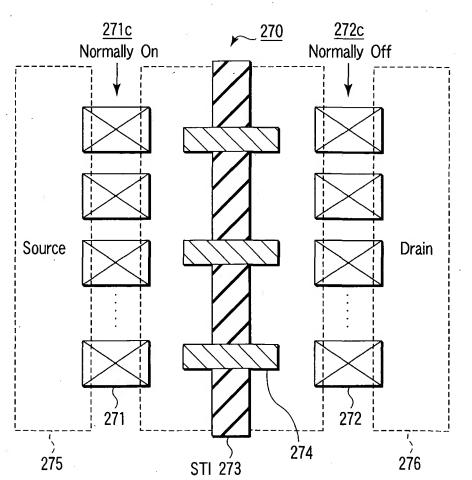
al.

DOCKET NO.: 016907-1569

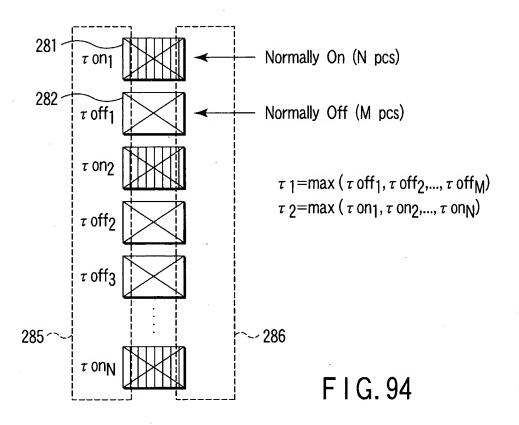
F1G.90

FIG. 93





al.



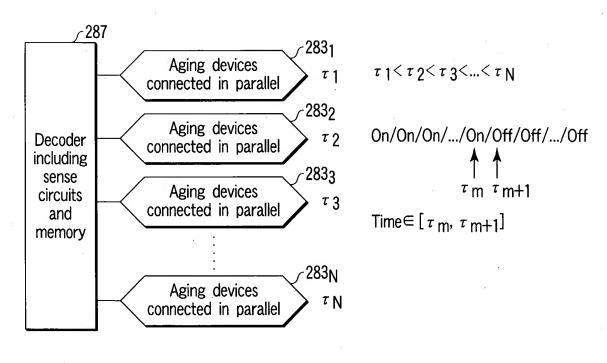
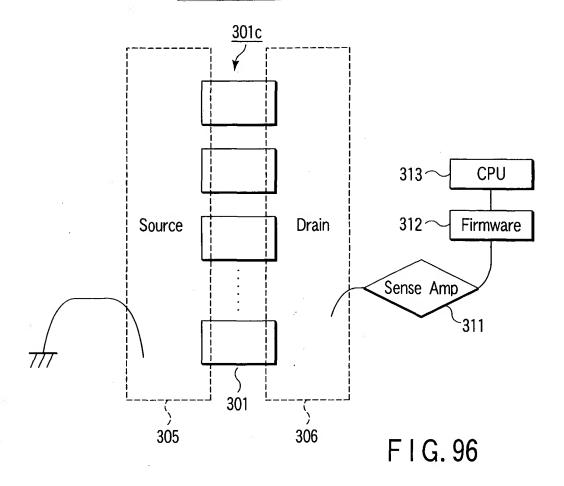


FIG. 95



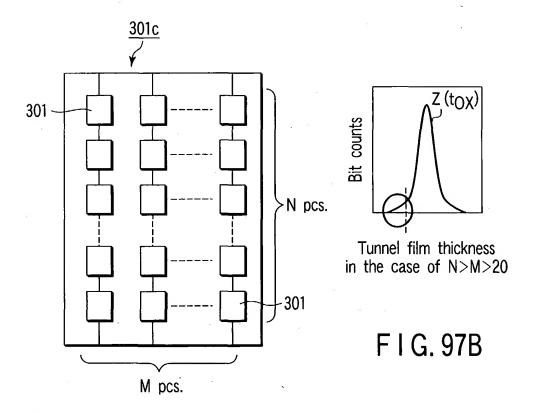
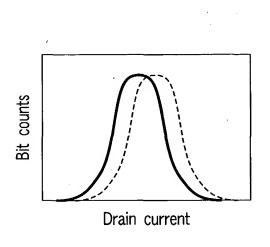
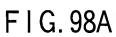


FIG. 97A





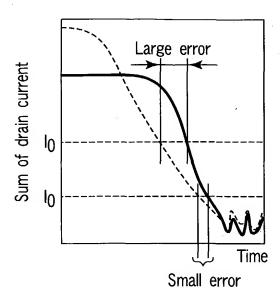
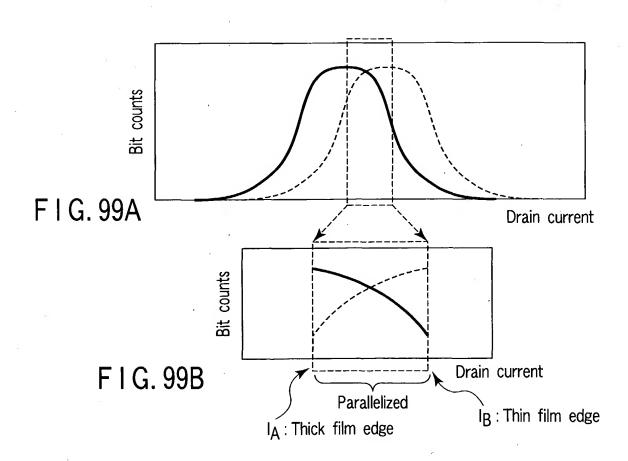
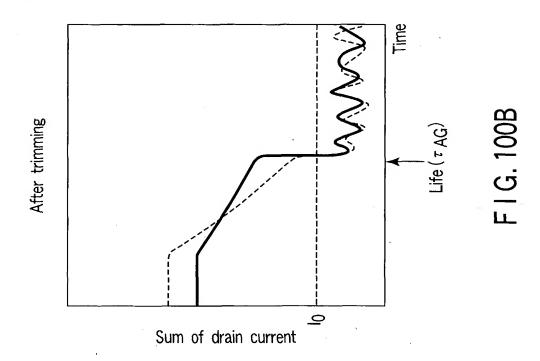
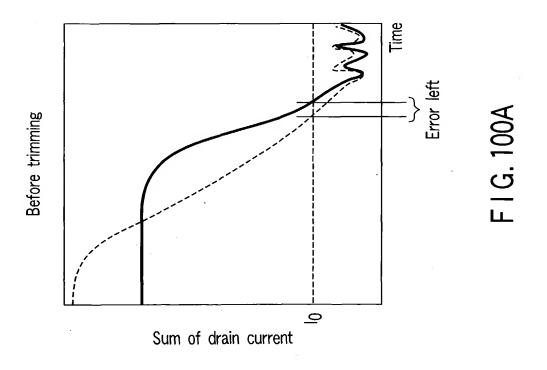


FIG. 98B







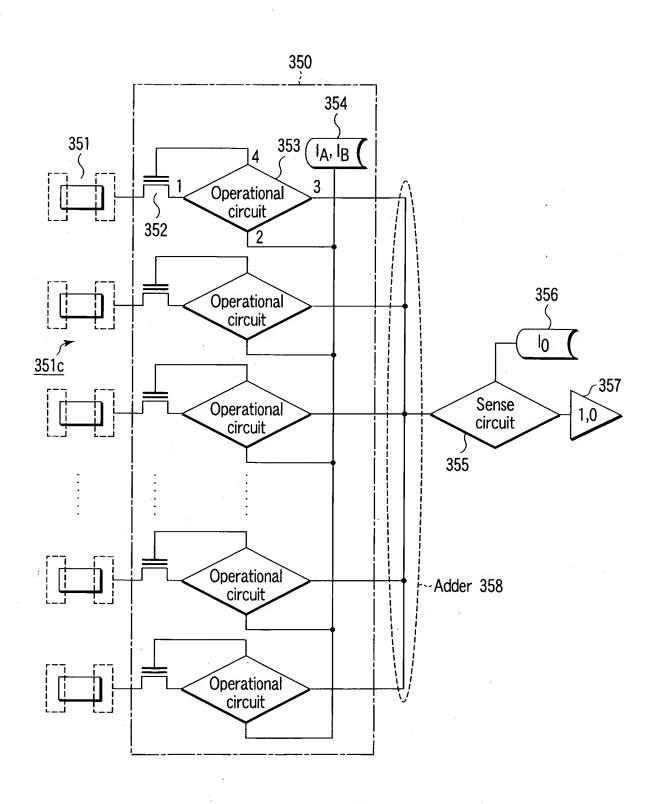


FIG. 101

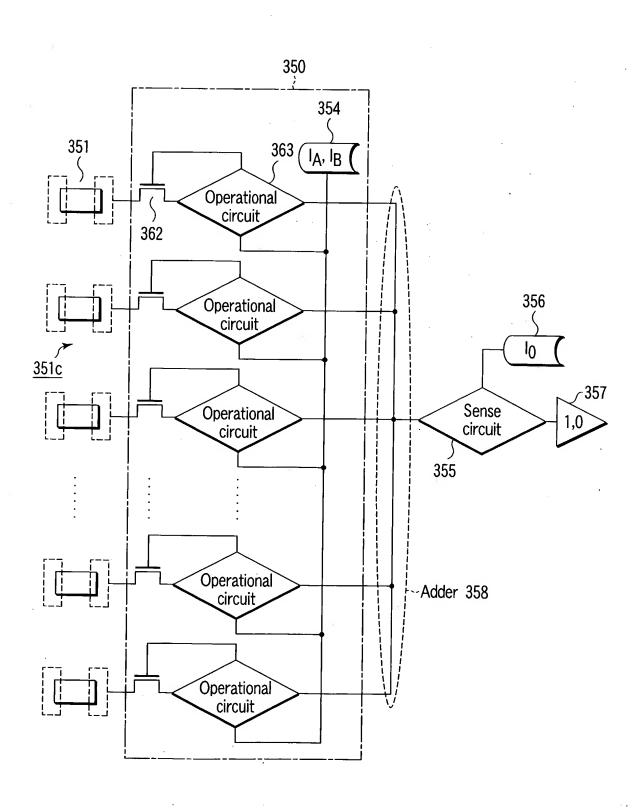


FIG. 102

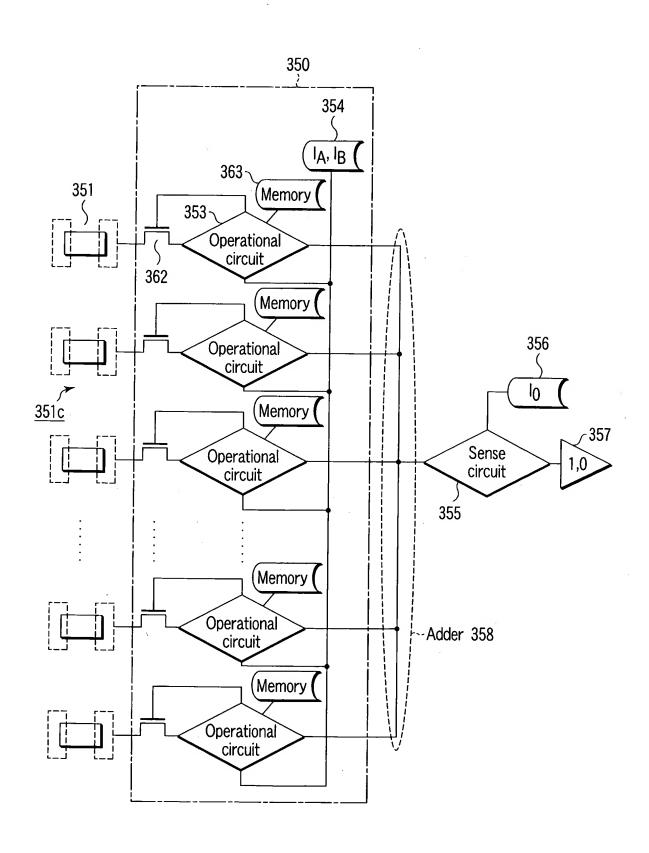
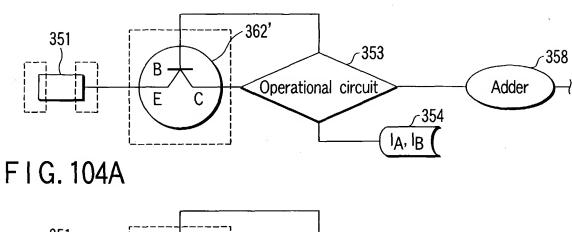
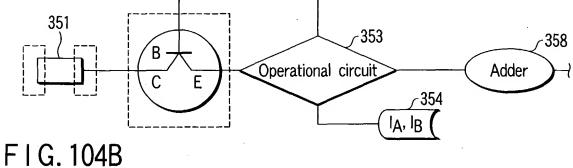
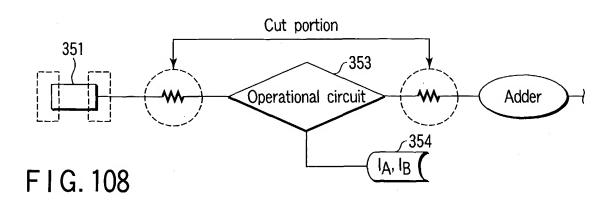


FIG. 103







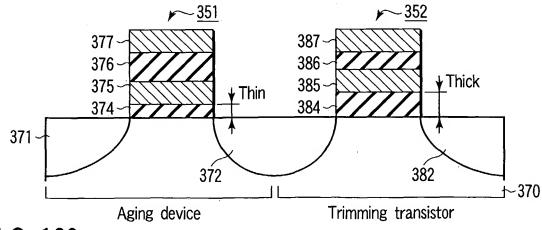


FIG. 109

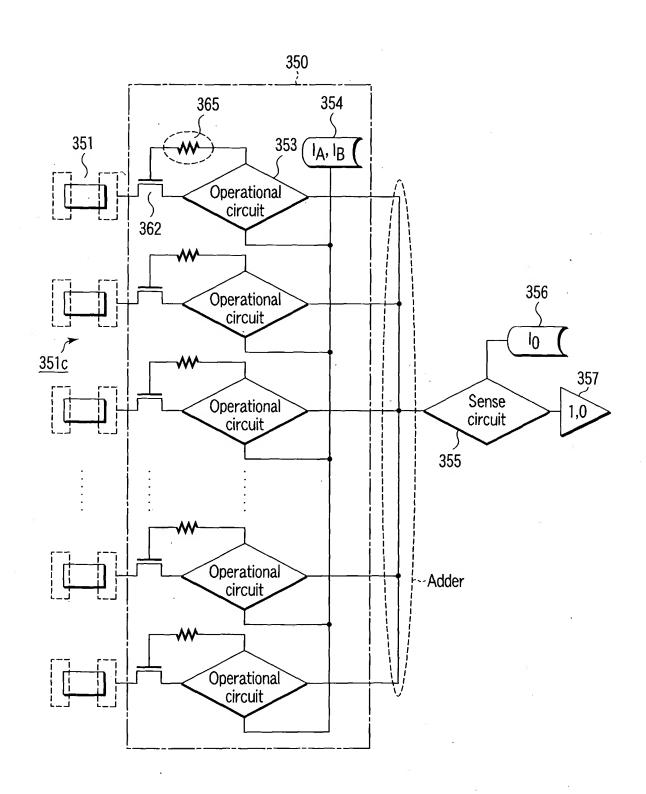


FIG. 105

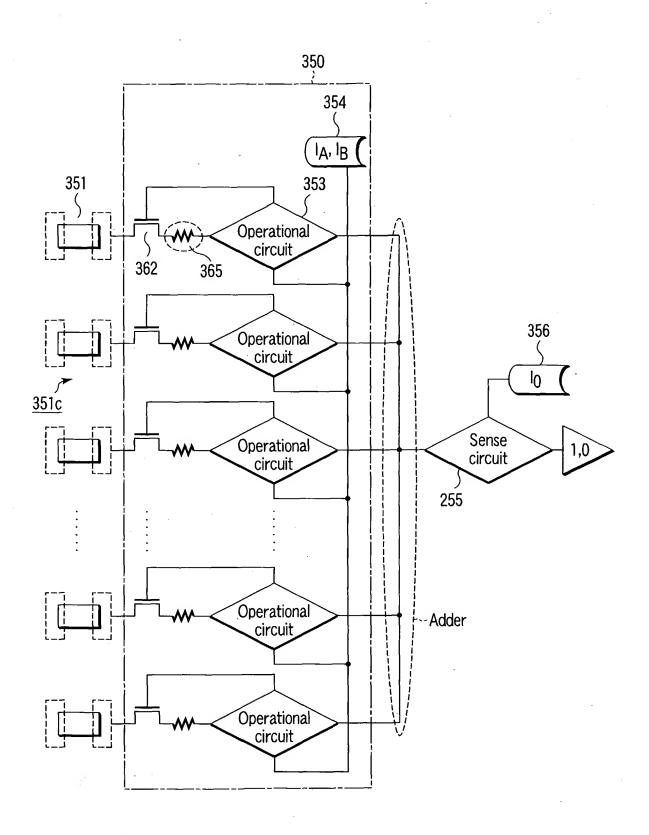


FIG. 106

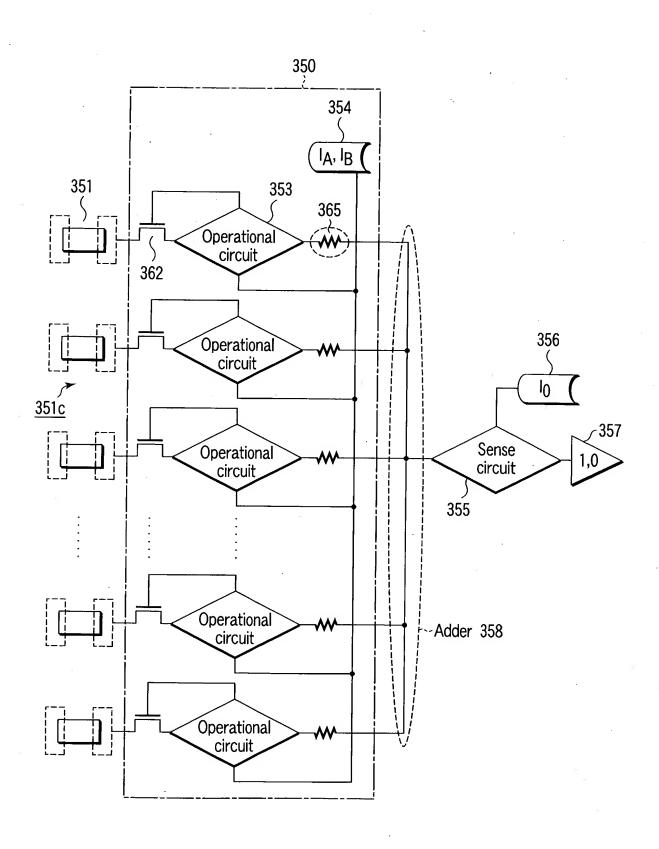
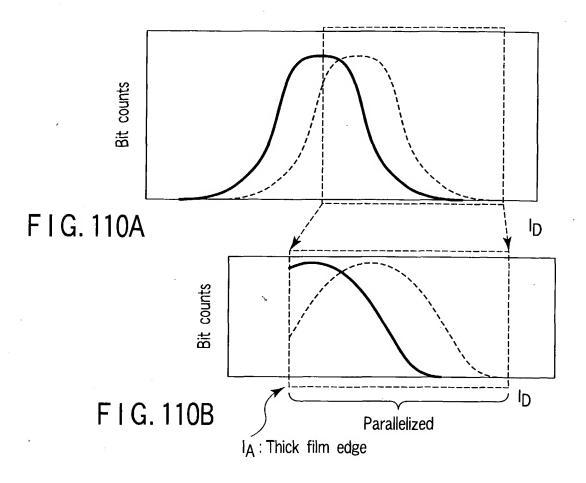
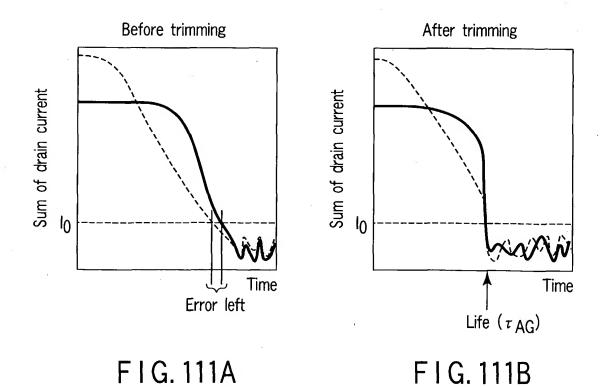


FIG. 107





al.

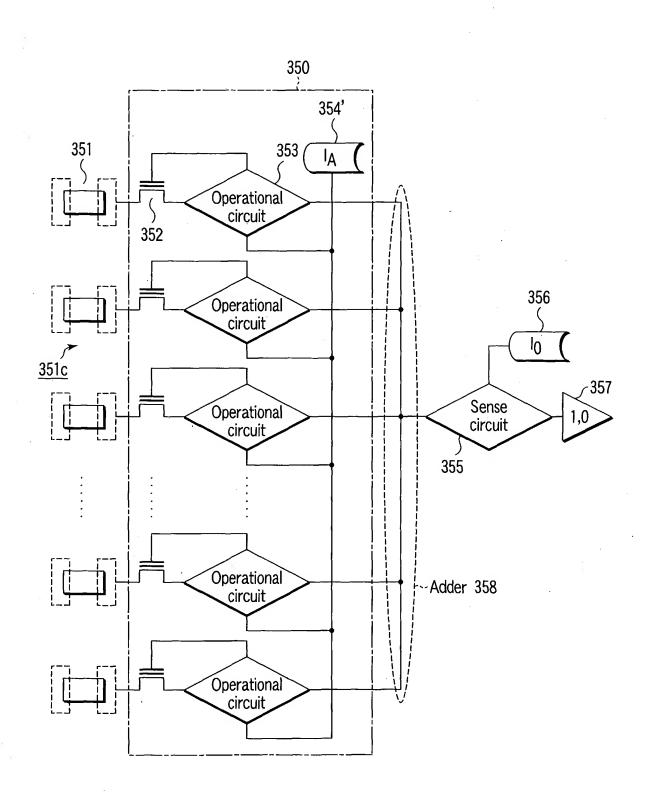


FIG. 112

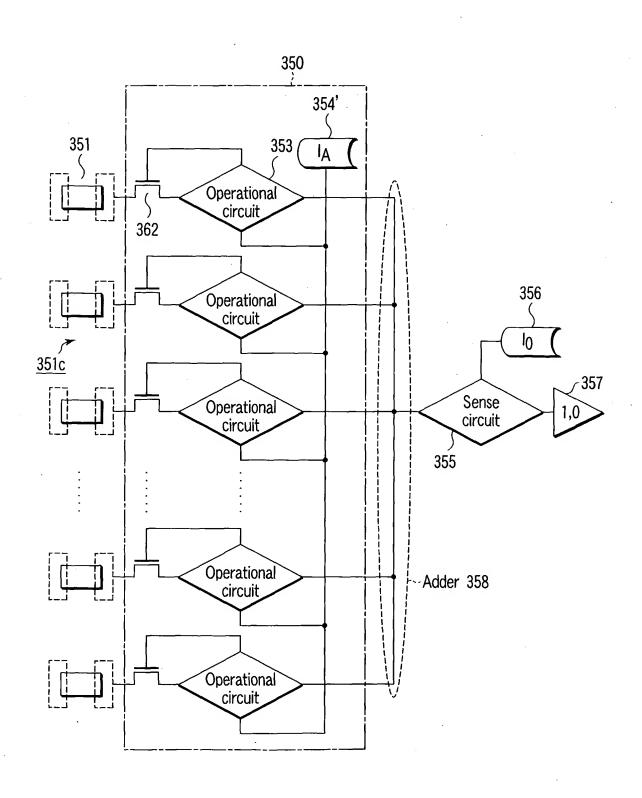


FIG. 113

DOCKET NO.: 016907-1569

411

All

Input

Sense circuit

Input> $l_0$   $l_0$ 

FIG. 114

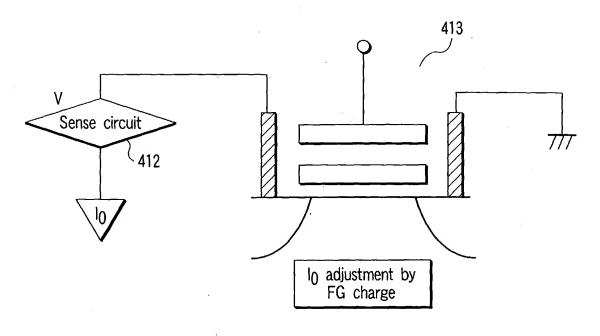
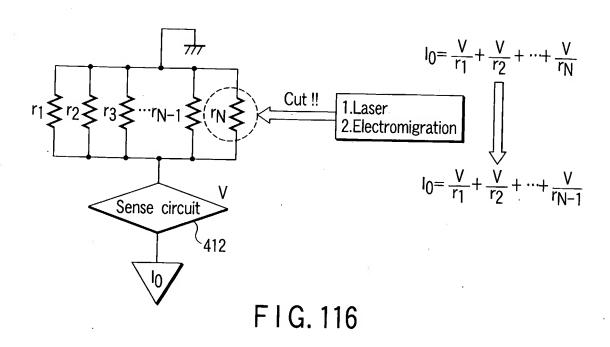


FIG. 115



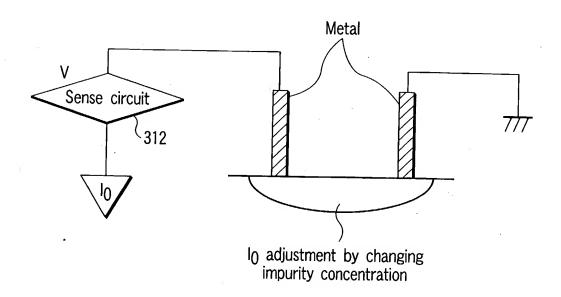


FIG. 117

